

IN THE CLAIMS:

Please AMEND claims 1, 12, 21, 27-30, 32-34, and 48-49; and

Please CANCEL claims 8-11, 17-18, 25, 39-40, and 46 without prejudice or disclaimer, as shown below.

1 (Currently Amended) A method, comprising:

using an authentication message to signal a service selection information via a first network to an authentication server of a second network, the service selection information indicating an access point; and

using said service selection information to connect to at least one service provided over said access point indicated by said service selection information,

wherein said service selection information comprises at least one access point name parameter,

wherein said at least one access point parameter comprises an access point name, a username and a password, and

wherein said at least one access point name parameter is encrypted in said authentication message so that said access point name can be decrypted or read by an access server, and the user name and password can only be decrypted at a network defined by the access point name.

2. (Previously Presented) A method according to claim 1, wherein said first network is a wireless local area network.

3. (Previously Presented) A method according to claim 1, wherein said second network is a cellular packet-switched network.

4. (Previously Presented) A method according to claim 3, wherein said cellular packet-switched network is a general packet radio service network.

5. (Previously Presented) A method according to claim 1, wherein said authentication message is an extensible authentication protocol message.

6. (Previously Presented) A method according to claim 5, wherein said extensible authentication protocol message is an extensible authentication protocol subscriber identity module or extensible authentication protocol authentication and key agreement message.

7. (Previously Presented) A method according to claim 5, wherein said authentication message is an extensible authentication protocol challenge response message.

8-11 (Cancelled)

12. (Currently Amended) An apparatus, comprising:

a processor configured to extract from a received authentication message a service selection information to select a service,

wherein the processor is configured to use said service selection information to establish a connection to services provided over an access point indicated by said service selection information,

wherein said service selection information comprises at least one access point name parameter,

wherein said at least one access point name parameter comprises an access point name, a username and a password, and

wherein said at least one access point name parameter is encrypted in said authentication message so that said access point name can be decrypted or read by an access server, and the user name and password can only be decrypted at a network defined by the access point name.

13. (Previously Presented) The apparatus according to claim 12, wherein said received authentication message is based on an extensible authentication protocol.

14. (Previously Presented) The apparatus according to claim 13, wherein said received authentication message is an extensible authentication protocol challenge response message.

15. (Previously Presented) The apparatus according to claim 12, wherein said processor is a standalone wireless local area network authentication server.

16. (Previously Presented) The apparatus according to claim 12, wherein said processor is a gateway general packet radio service support node.

17-18 (Cancelled)

19. (Previously Presented) The apparatus according to claim 17, wherein said at least one access point name parameter is decrypted in said processor.

20. (Previously Presented) The apparatus according to claim 17, wherein said at least one access point name parameter is forwarded by the processor to said access point in an encrypted manner.

21. (Currently Amended) An apparatus, comprising:

a processor configured to set in an authentication message a service selection information regarding selection of a network service,

wherein said service selection information comprises at least one access point name parameter,

wherein said at least one access point name parameter comprises an access point name, a username and a password, and

wherein said at least one access point name parameter is encrypted in said authentication message so that said access point name can be decrypted or read by an access server, and the user name and password can only be decrypted at a network defined by the access point name.

22. (Previously Presented) The apparatus according to claim 21, wherein said authentication message is an extensible authentication protocol message.

23. (Previously Presented) The apparatus according to claim 22, wherein said extensible authentication protocol message is an extensible authentication protocol challenge response message.

24. (Previously Presented) The apparatus according to claim 23, wherein said extensible authentication protocol challenge response message is an extensible

authentication protocol subscriber identity module or extensible authentication protocol authentication and key agreement challenge response message.

25 (Cancelled)

26. (Previously Presented) The apparatus according to claim 21, wherein said service is a general packet radio service.

27. (Currently Amended) A system, comprising:

a terminal device configured to provide access to a network service, said terminal device configured to set in an authentication message a service selection information regarding selection of said network service; and

an authentication server device connected to a second network, said authentication server device configured to provide an authentication mechanism, said authentication server device configured to extract from a received authentication message said service selection information to select said service, and to use said service selection information to establish a connection to services provided over an access point indicated by said service selection information,

wherein said service selection information comprises at least one access point name parameter,

wherein said at least one access point name parameter comprises an access point name, a username and a password, and

wherein said at least one access point name parameter is encrypted in said authentication message so that said access point name can be decrypted or read by an access server, and the user name and password can only be decrypted at a network defined by the access point name.

28. (Currently Amended) A method, comprising:

extracting, by a processor, from a received authentication message a service selection information to select a service; and

using, by the processor, said service selection information to establish a connection to services provided over an access point indicated by said service selection information,

wherein said service selection information comprises at least one access point name parameter,

wherein said at least one access point name parameter comprises an access point name, a username and a password, and

wherein said at least one access point name parameter is encrypted in said authentication message so that said access point name can be decrypted or read by an access server, and the user name and password can only be decrypted at a network defined by the access point name.

29. (Currently Amended) A method, comprising:
setting in an authentication message a service selection information regarding selection of a network service at a terminal device,
wherein said service selection information comprises at least one access point name parameter,
wherein said at least one access point name parameter comprises an access point name, a username and a password, and
wherein said at least one access point name parameter is encrypted in said authentication message so that said access point name can be decrypted or read by an access server, and the user name and password can only be decrypted at a network defined by the access point name.

30. (Currently Amended) A computer-readable storage medium encoded with instructions configured to control a processor to perform a process, the process comprising~~having computer-executable components, comprising:~~

using an authentication message to signal a service selection information via a first network to a second network; and

using said service selection information to connect to services provided over an access point indicated by said service selection information,

wherein said service selection information comprises at least one access point name parameter,

wherein said at least one access point name parameter comprises an access point name, a username and a password, and

wherein said at least one access point name parameter is encrypted in said authentication message so that said access point name can be decrypted or read by an access server, and the user name and password can only be decrypted at a network defined by the access point name.

31 (Cancelled)

32. (Currently Amended) A data structure embodied on a computer-readable medium, the data structure comprising~~computer-readable storage medium having stored thereon a data structure, comprising:~~

a service selection information to select a service,

wherein said service selection information comprises at least one access point name parameter,

wherein said at least one access point name parameter comprises an access point name, a username and a password, and

wherein said at least one access point name parameter is encrypted in said authentication message so that said access point name can be decrypted or read by an

access server, and the user name and password can only be decrypted at a network defined by the access point name.

33. (Currently Amended) A computer-readable storage medium encoded with instructions configured to control a processor to perform a process, the process comprising~~having computer-executable components, comprising:~~

extracting from a received authentication message a service selection information to select a service; and

using said service selection information to establish a connection to services provided over an access point indicated by said service selection information,

wherein said service selection information comprises at least one access point name parameter,

wherein said at least one access point name parameter comprises an access point name, a username and a password, and

wherein said at least one access point name parameter is encrypted in said authentication message so that said access point name can be decrypted or read by an access server, and the user name and password can only be decrypted at a network defined by the access point name.

34. (Currently Amended) A computer-readable storage medium encoded with instructions configured to control a processor to perform a process, the process comprising~~having computer-executable components, comprising:~~

setting in an authentication message a service selection information regarding selection of a network service,

wherein said service selection information comprises at least one access point name parameter,

wherein said at least one access point name parameter comprises an access point name, a username and a password, and

wherein said at least one access point name parameter is encrypted in said authentication message so that said access point name can be decrypted or read by an access server, and the user name and password can only be decrypted at a network defined by the access point name.

35-36 (Cancelled)

37. (Previously Presented) The method according to claim 28, wherein said received authentication message is based on an extensible authentication protocol.

38. (Previously Presented) The method according to claim 37, wherein said received authentication message is an extensible authentication protocol challenge response message.

39-40. (Cancelled)

41. (Previously Presented) The method according to claim 39, further comprising:

decrypting said at least one access point name parameter.

42. (Previously Presented) The method according to claim 39, further comprising:

forwarding said at least one access point name parameter to said access point in an encrypted manner.

43. (Previously Presented) The method according to claim 29, wherein said authentication message is an extensible authentication protocol message.

44. (Previously Presented) The method according to claim 43, wherein said extensible authentication protocol message is an extensible authentication protocol challenge response message.

45. (Previously Presented) The method according to claim 44, wherein said extensible authentication protocol challenge response message is an extensible authentication protocol subscriber identity module or extensible authentication protocol authentication and key agreement challenge response message.

46. (Cancelled)

47. (Previously Presented) The method according to claim 29, wherein said service is a general packet radio service.

48. (Currently Amended) An apparatus, comprising:
extracting means for extracting from a received authentication message a service selection information to select a service; and

controlling means for using said service selection information to establish a connection to services provided over an access point indicated by said service selection information,

wherein said service selection information comprises at least one access point name parameter,

wherein said at least one access point name parameter comprises an access point name, a username and a password, and

wherein said at least one access point name parameter is encrypted in said authentication message so that said access point name can be decrypted or read by an access server, and the user name and password can only be decrypted at a network defined by the access point name.

49. (Currently Amended) An apparatus, comprising:

setting means for setting in an authentication message a service selection information regarding selection of a network service; and

sending means for sending the authentication message,

wherein said service selection information comprises at least one access point name parameter,

wherein said at least one access point name parameter comprises an access point name, a username and a password, and

wherein said at least one access point name parameter is encrypted in said authentication message so that said access point name can be decrypted or read by an access server, and the user name and password can only be decrypted at a network defined by the access point name.